OPPT-2002-0060-0015 INITIAL REVIEW EXPOSURE REPORT P-98-1125 Page 1 of: 8 POWERS / Anderson 09/0**7**/98 Assessor: Search ()Y Focus Date: Health: Focus Rep: **MKP** SAT SAT Rep: Eco: \_ GT Max. PV Manuf. X Submitter: (kg/yr) Import Use: ∭no, Consumer Exposure () yes, see consumer exp. page Analogs/Comments Chemical Name: CAS: Trade Name: Structure:

~



50980007322/1

STATE         NEAT         Solid (est)           MFG         Solution, in benzyl alcohol           FORMUL/MFG         % < 500                     MOL WT         % < 1000                     PROPERTY         Submitted         ICB-CRSS                     Method/Restrict                               MP (C)   BP (C)   VP (torr)                   < 0.000001	of	EPIE	STIM	MATIONS  @ 760 to
MFG   Solution, in benzyl alcohol   FORMUL/	of .		SIIM	@ 760 to
MOL WT         % < 1000	of .			mg.
PROPERTY         Submitted         ICB-CRSS         Method/Ref           MP (C)         @ 760 torr           @ P (torr)         <0.000001	f			mg.
MP (C)  BP (C)  @ 760 torr  @ P (torr)  VP (torr)  S-H2O (g/L)  S-Org (g/L)  Log Kow  pH, pKa  Log Koc  Light Absorption (nm) < > 290  Log BCF  BC	f			mg.
BP (C)       @ 760 torr         @ P (torr)       <0.000001				mg.
@ P (torr)  VP (torr)			-	mg.
VP (torr)       <0.000001		· · · · · · · · · · · · · · · · · · ·		
S-H2O (g/L) >100 Est  S-Org (g/L)  Log Kow  pH, pKa		·		
S-Org (g/L)  Log Kow  pH, pKa  Log Koc  Light Absorption (nm) < > 290  Log BCF B6		(		
Log Kow         Log Koc           pH, pKa         Log Koc           Light Absorption (nm)         < > 290         Log BCF         B0		·		
pH, pKa Log Koc Light Absorption (nm) < > 290 Log BCF BG		<u>-</u> .		mg.
Light Absorption (nm) < > 290 Log BCF B0				
Solvent: H (atm m3/m	CF			
Octivities.	ıol)			
HYDRO t(1/2) @ pH 7, 25 C da Persistence /	Bioaco	ccumulation P		P3 B1
Volatilization (H2O) t(1/2) River	hr	Lake		C
AOP t(1/2) (hr) OH O3		Total		
BIODEG Linear Prob: Nonlinear Prob: Survey Ult:		Surv	ey P	rim:
STP (% Removal) Tot Biod Ads			Air	<u>-</u> .
		•		4
REMOVAL IN WWT/POTW % Overall 0 25	50	75	9	0 => 99
	CATE	GORY		
RATING 1 2	2	3	<b>-</b>	4
Sorption low mode	moderate		strong	
Stripping extensive mode	erate	low		negligible
Removal unknown hig	high		moderate	
Biodegradation Destruction unknown comp	complete		partial	
Comments:			,	
AEROBIC BIODEGRADATION Ultimate <= days week	eks	month	าร	≥ months
Primary <= days wee	eks	month	าร	> months
Comments:				

INITIAL REVIE	W EXPOSURI	E REF	PORT		P-98-112	25	Page 3 of: 🎖		
					CATEGORY				
				RATING	1	2	_ 3.	4	
ANAEROBIC BI	ODEGRADAT	ION	Ultimate		<= days	weeks	months	months	
			Primary		<= days	weeks	months	> months	
Comments:									
	HYDRO (da)							-	
HYDROLYSIS		A.			<= mins	hours	days	=> months	
(t(1/2) @ pH 7,	25 C)	B.	,		<= mins	hours	days	=> months	
Comments:	,								
SORPTION TO	SOIL & SEDII	MENT			v.strong \	strong	moderate	low .	
Comments:					1				
MIGRATION TO GROUND WATER				negl/	slow	moderate	rapid		
Comments:								<u>.                                    </u>	
VOLATILIZATIO	N Rivers	(hr)			negl	slow	moderate	rapid	
(t(1/2) w/o sediment Lakes (da)					negl	slow	moderate	rapid	
Comments:									
PHOTOLYSIS		Α. [	Direct		negl	slow	moderate	rapid	
		B. I	ndirect		negl	slow	moderate	rapid	
Comments:						/	-		
		AOP	t(1/2) hr						
ATMOSPHERIC	A. OH				negl	slow	moderate	rapid	
OXIDATION	B. O3				negl	slow	moderate	rapid	
Comments:									
<u> </u>			·			····			

\* .

INITIAL REVIEW EXPOSURE REPORT

PAGE 4 OF 8

INCINER LAND/INCIN

FUGITIVE

CASE NUMBER(S): P-98-1125 ASSESSOR:

ENVIRONMENTAL RELEASES

RELEASE ID#: 1 Number of Release Sites: 1

RELEASE ACTIVITY: (X)MFG ( )PRO ( )IND USE ( )COMM USE ( )CONS USE

RELEASE DESCRIPTION: WATER LANDFILL
Total Releases: 0.00 0.00 0.00 (kg/yr) (kg/yr) (kg/yr) (kg/yr) (kg/yr)

Release Days/yr: 0.00 Per Site Release: 0.00 0.00 (kg/day) (kg/yr) (kg/yr) (kg/yr) (kg/day)

REMARKS: Incineration release is less than trigger of 200 kg/site/yr after 99.9% destruction.

RELEASE ID#: 2 Number of Release Sites: 1

RELEASE ACTIVITY: ( )MFG (X)PRO ( )IND USE ( )COMM USE ( )CONS USE

WATER LANDFILL INCINER LAND/INCIN FUGITIVE RELEASE DESCRIPTION: 0.00 5.00e+04 0.00 (kg/yr) (kg/yr) Total Releases: 1300.00 0.00 (kg/yr) (kg/yr) (kg/yr)

Release Days/yr: 10 0.00 5.00e+04 0.00 0.00 (kg/yr) (kg/yr) (kg/yr) Per Site Release: 130.00 0.00 (kg/day) (kg/yr)

REMARKS : Incineration release is less than trigger of 200 kg/site/yr after 99.9% destruction.

RELEASE ID#: 3 Number of Release Sites: 30

RELEASE ACTIVITY: ( )MFG ( )PRO (X)IND USE ( )COMM USE ( )CONS USE

WATER LANDFILL
1950.00 0.00
(kg/yr) (kg/yr) RELEASE DESCRIPTION: INCINER LAND/INCIN FUGITIVE Total Releases: 1950.00 5.00e+04 0.00 0.00 (kg/yr) (kg/yr) (kg/yr)

Release Days/yr: 50 0 1.30 0.00 Per Site Release: 1666.67 0.00 0.00 (kg/day) (kg/yr) (kg/yr) (kg/yr) (kg/day)

REMARKS: Incineration release is less than trigger of 200 kg/site/yr after 99.9% destruction.

CASE NUMBER(S): P-98-1125

AQUATIC EXPOSURES FROM RELEASES TO LAKES, BAYS, ESTUARIES AND OCEANS

RELEASE ID#: 1

RELEASE ACTIVITY: (X)MFG ( )PRO ( )IND USE ( )COMM USE ( )CONS. USE

Facility Name:

Facility Location:

Receiving Water Name:

Reach Number:

Facility on Reach? [X] Yes [] No

Discharge Type: [X] Direct [] Indirect

NPDES Permit # (for indirects, use POTW permit #)

Data Source: [ ] Task 73 [ ] IFD

[ ] Submitter
[ ] Contractor
[ ] Region/State

[X] Other SIDS/Direct .

Removal in Wastewater Treatment: 75.000 % - 90.000 %

Plant Effluent Flow (MLD): 1415.590

Release (kg/site/day):

(before treatment) (after treatment)

Bio Concentration Factor: 0.000 Fish ingested (grams/day): 2.000

Release days/yr: 2

	MIXING ZONE DILUTION FACTOR	SURFACE WATER WATER (ug/l)*	FISH INGEST PDR*	
ACUTE CHRONIC		0.53 0.53	0.00	

\*Where, SURFACE WATER CONC. = [Pollutant loading after treatment/ Plant effluent flow (MLD)] \* 1000/Critical dilution factor)

FISH ING PDR = (mean stream conc) X (Bio Concentration Factor) X (fish ingested/day) X (release days/yr) X (1.0e-6)

REMARKS: COC = 10 ppb and is not exceeded. Acute dilution factor of 166 used as a conservative substitute for chronic dilution factor to use model because this factor unavailable in SIDS or Task 73.

CASE NUMBER(S): P-98-1125

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

RELEASE ID#: 2

RELEASE ACTIVITY: ( )MFG (X)PRO ( )IND USE ( )COMM USE ( )CONS -USE

RELEASE ACTIVITY SIC CODE(S):

SIC CODE DESCRIPTION:

Removal in Wastewater Treatment: 75.000 % - 90.000 %

Bio Concentration Factor: 0.000

Release (kg/site/day): 130.000 32.500

(before treatment) (after treatment)

Release days/yr: 10

Water ingested (liters/day) : 2.000

Fish consumed (grams/day) : 16.900

PLANT TYPE	% TILE	STREAMFLO MEAN	OW (MLD)	STREAM CO	NC (UG/L) LOW	HUMAN PDRs WATER	(MG/YR) FISH *
	11111	, MEAN	DON	MDAN		WAIER	FISH *
All	50	3635.98	355.79	8.94 '	91.35	0.18	0.00
All	10	123.82	16.02	262.48	2028.71	5.25	0.00

\*Where, STREAM CONC = [(Release after treatment) X (1000)] / (Streamflow)
DRINKING WATER PDR = (Mean stream conc) X (water ingested/day) X
(Release days/yr) X (0.001)
FISH INGESTION PDR = (Mean stream conc) X (Bio Concentration Factor)

X (fish ingested/day) X (Release days/yr) X (1.0 E-6)
REMARKS : COC = 10 ppb and is exceeded. Releases occur less than 20 days per

1 CFS = 2.4465 MLD

year. No BCF reported.

1 MGD = 3.7854 MLD

CASE NUMBER(S): P-98-1125

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

RELEASE ID#: 3

RELEASE ACTIVITY: ( )MFG ( )PRO (X)IND USE ( )COMM USE ( )CONS USE

RELEASE ACTIVITY SIC CODE(S): 4952

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.).

Removal in Wastewater Treatment: 75.000 % - 90.000 %

Bio Concentration Factor: 0.000

Release (kg/site/day): 1.300 0.325

(before treatment) (after treatment)

Release days/yr: 50

Water ingested (liters/day) : 2.000

Fish consumed (grams/day) : 16.900

PLANT TYPE	% TILE	STREAMFLOW MEAN	(MLD)	STREAM CONC MEAN	(UG/L) LOW	HUMAN PDRs WATER	(MG/YR) FISH *
All All	50 10	824.23 112.79	78.74 7.57	0.39	4.13 42.93	3.94e-02 0.29	0.00

\*Where, STREAM CONC = [(Release after treatment) X (1000)] / (Streamflow)
DRINKING WATER PDR = (Mean stream conc) X (water ingested/day) X
(Release days/yr) X (0.001)

FISH INGESTION PDR = (Mean stream conc) X (Bio Concentration Factor)
X (fish ingested/day) X (Release days/yr) X (1.0 E-6)

REMARKS: COC = 10 ppb and is exceeded 18 days/yr. No BCF reported.

1 CFS = 2.4465 MLD 1 MGD = 3.7854 MLD

	PDM EXPOSURE		Page <b></b> of _	<u>{</u>		
CASE(s)	:P-98-1	1125		*		
FOR FACIL	BASED PROBABILIST ITY IN POTWs (Ind Case Scenario			TS		
Release II	D# : <u>3</u>				*	
Release A	ctivity: ( )MFG	; ( )PRO	(X) IND USE (	) COMM	USE (	) CONS
Release Act	tivity SIC Code (	(s): 49	52	٠	_ :	•
SIC Code De	escription :	Indus.	POTW			-
Number of I	Release Sites : _	30			_	
Removal in	Wastewater Treat	ment (Percent)	: <u>75-90</u>	2	<u>-</u>	
			DIRECT INDI	RECT	ALL	
10th %tile	Mean Streamflow	(MLD) :		_		
10th %tile	Low Streamflow (	MLD) :	and the second s			-
10th %tile	Effluent Streamf	flow (MLD) :		·		-
========	=======================================		=======================================	======	=======	- :
RELEASE DAYS/YR	AMOUNT RELEASED	CONCERN CONC.	PERCEN		DAYS	
DUID) IK		(ug/1)	OF YEA EXCEEDED		PER YEAR EXCEEDED	
50	0.33	10.00000	4.6	 9	17.11	)
						/ -

\* 'PERCENT OF YEAR EXCEEDED' is obtained by dividing the 'DAYS PER YEAR EXCEEDED' by 365 days/yr.

Remarks: